

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20. (canceled)

21. (previously presented) A module for coupling a telephone device to at least one time-domain multiplexed digitized voice channel carried over bus topology wiring in a building, the wiring having at least two conductors, the module comprising:

a local area network modem couplable to the wiring and operative to communicate with at least one identical modem over the bus topology wiring in the building;

selective means coupled to said modem and operative to pass a first voice channel;

a subscriber line interface coupled to said selective means and operative to convert said first voice channel to a first analog telephone signal; and

a first telephone connector coupled to said subscriber line interface and couplable to a telephone device to couple the telephone device to said first analog telephone signal.

22. (previously presented) The module according to claim 21, wherein the wiring is existing wiring in the building and the wiring comprises at least two conductors in walls of the

building and a plurality of outlets allowing for connection to the two conductors by means of a service jack, and wherein the module further comprises a service plug connectable to a mating service jack, and said modem is coupled to said service plug.

23. (previously presented) The module according to claim 22, wherein the wiring is used to concurrently carrying a service signal.

24. (previously presented) The module according to claim 23, wherein the wiring is a telephone wiring.

25. (previously presented) The module according to claim 22, wherein the module is dimensioned to be mountable in an outlet cavity in a wall.

26. (previously presented) The module according to claim 22, wherein the module is at least in part housed within an outlet.

27. (previously presented) The module according to claim 21 wherein the wiring concurrently carries a frequency domain multiplexed second analog telephone signal in a telephone band, and the module further comprises:

a frequency selective means couplable to the wiring and operative to pass the said second analog telephone signal; and

a second telephone connector coupled to said frequency selective means for coupling a telephone device to said second analog telephone signal.

28. (previously presented) The module according to claim 21, wherein the multiplexed digitized voice channels carry Pulse Code Modulation (PCM) signals.

29. (previously presented) The module according to claim 21, wherein the wiring further carry data signals, and the module further comprises a data connector operative to couple the data signals to a data unit.

30. (previously presented) A module for coupling at least one telephone service signal to at least one time-domain multiplexed digitized voice channel carried over a wiring having at least two conductors, the module comprising:

at least one exchange line interface couplable to said at least one telephone service signal, and operative to convert said at least one telephone service signal to a digitized service signal; and

a modem coupled to said at least one exchange line interface and operative to couple said digitized service signal to the signal carried over the wiring.

31. (previously presented) The module according to claim 30, wherein the module is used for coupling multiple service signals to multiple time-domain multiplexed digitized voice channels carried over the wiring, and wherein the module further comprising selective means coupled to said modem and to said at least one exchange line interface and operative to selectively couple said multiple digitized voice channels carried over the wiring to said digitized service channels.

32. previously presented) The module according to claim 30, wherein the wiring is existing wiring in the building, and said modem is operative to communicate with identical modems in the building over the existing wiring.

33. (previously presented) The module according to claim 32, wherein the wiring is used to concurrently carrying a service signal.

34. (previously presented) The module according to claim 33, wherein the wiring is a telephone wiring.

35. (previously presented) The module according to claim 32, wherein the module is dimensioned to be mountable in an outlet cavity in a wall.

36. (previously presented) The module according to claim 32, wherein the module is at least in part housed within an outlet.

37. (previously presented) The module according to claim 30, wherein the wiring concurrently carries a frequency domain multiplexed analog telephone signal in a telephone band, and the module further comprises:

a connection means for coupling to an analog telephone service; and

a frequency selective means coupled to said connection means and couplable to the wiring, and operative to pass the analog telephone signal.

38. (previously presented) The module according to claim 30, wherein the multiplexed digitized voice channels carry Pulse Code Modulation (PCM) signals.

39. (previously presented) The module according to claim 30, wherein the wiring further carry data signals, and the module further comprises a data connector operative to couple the data signals to a data unit.

Claims 40-58. (canceled)

59. (previously presented) For use with first and second wiring segments, each segment having at least two conductors and each segment carrying a signal composed of a plurality of time-domain multiplexed digitized voice channels, at least the first wiring segment being local area network wiring in a building, a module for coupling a telephone device to said wiring segments, the module comprising:

first and second modems each couplable to a respective one of said first and second wiring segments, said first modem being operative to communicate with at least one identical modem in the building over the first wiring segment and said second modem being couplable to the second wiring segment to couple to the signal carried over the second wiring segment;

selective means coupled to said first and second modems and operative to select one voice channel;

a subscriber line interface coupled to said selective means and operative to convert said one voice channel to a first analog telephone signal; and

a first telephone connector coupled to said subscriber line interface and operative to couple the telephone device to said first analog telephone signal.

Claims 60-61. (canceled)

62. (previously presented) The module according to claim 59, wherein said the second wiring segment is a telephone wiring.

63. (previously presented) The module according to claim 59, wherein the module is dimensioned to be mountable in an outlet cavity in a wall.

64. (previously presented) The module according to claim 59, wherein the module is at least in part housed within an outlet.

65. (previously presented) The module according to claim 59, wherein at least one of said wiring segments concurrently carries a frequency domain multiplexed second analog telephone signal in a telephone band, and the module further comprises:
a frequency selective means couplable to the wiring and operative to isolate said second analog telephone signal; and
a second telephone connector coupled to said frequency selective means and operative to couple a telephone device to said second analog telephone signal.

66. (previously presented) The module according to claim 59, wherein the multiplexed digitized voice channels carry Pulse Code Modulation (PCM) signals.

67. (previously presented) The module according to claim 59, wherein at least one of said wiring segments further carries

data signals, and the module further comprises a data connector operative to couple a data unit to the data signals.

Claims 68-84. (canceled)

85. (previously presented) A kit for use with a wiring system in a building having a continuous wire pair and multiple outlets for connecting to said wire pair and forming a bus topology, the wire pair carrying at least one time-domain multiplexed digitized voice channel, said kit comprising:

at least two modules, each as defined in claim 21, all of said modules having identical modems, and each of said modems being operative to communicate with all other modems of the other modules.

Claim 86. (canceled)

87. (previously presented) The module according to claim 30, wherein said modem is operative to communicate with at least one identical modem over the wiring.

88. (previously presented) The module according to claim 21, further comprising means for detachably electrically and mechanically coupling said module to an outlet connected to the wiring.

89. (previously presented) The module according to claim 59,
wherein said selective means are operative to pass at least
one voice channel between said first and second modems.